

COMPACT STRUCTURAL CT DETECTOR MODULE

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ABSTRACT

This invention relates generally to a system for differentiating material characteristics using a Computed Tomography imaging system. More particularly, it relates to a detector module for use with a hybrid-scintillator/photo sensor and direct
10 conversion imaging system comprised of an x-ray transparent top layer; an electrode on said top; a block of direct conversion material, the electrode providing a common bias to the direct conversion material; a substrate material electrically connected with the direct conversion material; a signal processing chip electrically connected with the substrate; and a connector element electrically connected to the substrate.

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